



PATENT

Case Docket No. DAVI190.001AUS

Date: January 12, 2004

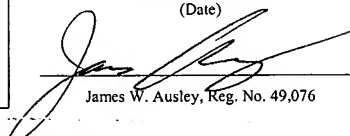
IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants : MA et al.  
Appl. No. : 10/611,306  
Filed : July 1, 2003  
For : PUMP  
Examiner : Unknown  
Group Art Unit : 2834

I hereby certify that this correspondence and all marked attachments are being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on

January 12, 2004

(Date)

  
James W. Ausley, Reg. No. 49,076

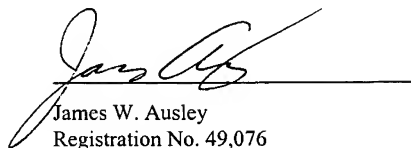
TRANSMITTAL LETTER

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

Enclosed for filing in the above-identified application are:

- (X) Supplemental Information Disclosure Statement.
- (X) PTO Form 1449 with nineteen (19) enclosed references.
- (X) Return prepaid postcard.
- (X) The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment, to Account No. 11-1410.

  
James W. Ausley  
Registration No. 49,076  
Agent of Record  
Customer No. 20,995  
(909) 781-9231



**SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT**

Applicant : MA et al.  
App. No. : 10/611,306  
Filed : July 1, 2003  
For : PUMP  
Examiner : Unknown  
Group Art Unit : 2834

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

Enclosed is form PTO-1449 listing nineteen (19) references that are also enclosed.

This Supplemental Information Disclosure Statement is being filed before the receipt of a first Office Action on the merits, and presumably no fee is required in accordance with 37 C.F.R. § 1.97(b)(3). If a first Office Action on the merits was mailed before the mailing date of this Statement, the Commissioner is authorized to charge the fee set forth in 37 C.F.R. § 1.17(p) to Deposit Account No. 11-1410.

Respectfully submitted,

KNOBBE, MARTENS, OLSON & BEAR, LLP

Dated: 1/9/04

By: James W. Ausley

James W. Ausley  
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FORM PTO-1449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. DAV1190.001AUS	APPLICATION NO. 10/611,306
SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT (SEE SEVERAL SHEETS IF NECESSARY)		APPLICANT MA et al.	
		FILING DATE July 1, 2003	GROUP 2834

EXAMINER INITIAL	DOCUMENT
1	"Single-tube three dimensional scanner for scanning tunneling microscopy" by BINNIG et al; <i>Rev. Sci. Instrum.</i> 57 (August 1986); pages 1688-1689
2	"An ultrasonic micromotor using a bending cylindrical transducer based on PZT thin film" by MORITA et al; <i>Sensors and Actuators A</i> 50 (1995); pages 75-80
3	"A cylindrical shaped micro ultrasonic motor utilizing PZT thin film (1.4mm in diameter and 5.0mm long stator transducer)" by MORITA et al; <i>Sensors and Actuators</i> 83 (2000); pages 225-230
4	"A Cylindrical Micro Ultrasonic Motor Using PZT Thin Film Deposited by Single Process Hydrothermal Method ( $\phi$ 2.4mm, L = 10mm Stator Transducer)" by MORITA et al; <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , Vol. 45, No. 5 (September 1998); pages 1178-1187
5	"A Cylindrical Ultrasonic Micro Motor Based on PZT Thin Film" by KUROSAWA et al; <i>IEEE Ultrasonics Symposium</i> (1994); pages 549-552
6	"A micro ultrasonic motor fabricated by hydrothermal method (1.4mm in diameter and 5mm in length stator transducer)" by MORITA et al; <i>IEEE Ultrasonic Symposium</i> (1998); pages 671-674
7	"Electrophoretic Deposition of Advanced Ceramics" by CHENG et al; <i>Processing and Fabrication of Advanced Materials VIII</i> (2000); pages 517-524
8	"Properties of Modified Lead Zirconate Titanate Ceramics Prepared at Low Temperature (800°C) by Hot Isostatic Pressing" by LI et al; <i>J. Am. Ceram. Soc.</i> 83 (2000); pages 955-957
9	"Design of a Cylindrical Ultrasonic Micromotor to Obtain Mechanical Output" by MORITA et al; <i>Jpn. J. Appl. Phys.</i> Vol. 35 (1996); pages 3251-3254
10	"Cylindrical Micro Ultrasonic Motor Utilizing Bulk Lead Zirconate Titanate (PZT)" by MORITA et al; <i>Jpn. J. Appl. Phys.</i> Vol. 38 (1999); pages 3347-3350
11	"Effect of Shear Stress on Sintering" by RAHAMAN et al; <i>J. Am. Ceram. Soc.</i> 69 (1986); pages 53-58
12	"Loss Mechanisms in Piezoelectrics: How to Measure Different Losses Separately" by UCHINO et al; <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> Vol. 48 (2001); pages 307-321
13	"Compact Ultrasonic Rotary Motors" by UCHINO et al; <i>Ferroelectrics</i> Vol. 257 (2001); pages 3-12
14	"Analysis of Bending Displacement of Lead Zirconate Titanate Thin Film Synthesized by Hydrothermal Method" by OHBA et al; <i>Jpn. J. Appl. Phys.</i> Vol. 32 (1993); pages 4095-4098
15	"Piezoelectric Properties of Niobium-Doped $[\text{Pb}(\text{Sc}_{1/2}\text{Nb}_{1/2})_{1-x}\text{Ti}_x]\text{O}_3$ Ceramics Material near the Morphotropic Phase Boundary" by YAMASHITA et al; <i>Jpn. J. Appl. Phys.</i> Vol. 33 (1994); pages 4652-4656
16	"Piezoelectric tubes and tubular composites for actuator and sensor applications" by ZHANG et al; <i>J. Mater. Sci.</i> 28 (1993); pages 3962-3968
17	"Design and Fabrication of a High Performance Multilayer Piezoelectric Actuator with Bending Deformation" by YAO et al; <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> Vol. 46 (1999); pages 1020-1027
18	"Electromechanical Properties of Composite Bending-Type Transducers" by MARUTAKE et al; <i>Jpn. J. Appl. Phys.</i> Vol. 34 (1995); pages 5284-5287
19	" $\text{Ba}(\text{Ti}_{1-5/4x}\text{Nb}_x)\text{O}_3$ Relaxor Ferroelectrics" by ZHANG et al; <i>Ferroelectrics Letters</i> Vol. 29 (2002); pages 125-130

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EXAMINER	DATE CONSIDERED
*EXAMINER: INITIAL IF CITATION CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP 609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED, INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.	